INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) (Use several sheets if necessary)

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Application Number	09/018,783			
Confirmation Number	1242			
Filing Date	February 4, 1998			
First Named Inventor	Thomas L. Ritzdorf			
Group Art Unit	2823			
Examiner Name	Deven M. Collins			
Attempt Decket No.	201058163118			

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7	10empt)	5	6,254,758			F	Koyama	07/03/01				
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	Examiner Initial	Cite No.	Far Office	reign Patent or A	Kind (Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	_		
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	0~		AHN, F Societ	Ē. C. et al. " y Symposiu	Adhesion m Proce	n Re edin	liability of Cu-Cr Alloy Films to Pogs, 1996, Vol. 427, pp. 141-145, N	Nyimide " Materi Naterials Resea	ials Research rch Society.			
			anneal		damasc		between reliability and post-CMP interconnects" IEEE International I					
	GLADKIKH, A. et al. "Activation Energy of Electromigration in Copper Thin Film Conductor Lines Materials Research Society Symposium Proceedings, 1996, Vol. 427, pp. 121-126, Materials Research Society.											
							ectromigration In Submicron Wide gs, 1996, Vol. 427, pp. 127-132, N					
							y and Interaction Between SIOF at gs. 1996, Vol. 427, pp. 433-439, N					
	RUSSELL, S. W. et al. "The Effect of Copper on the Titanlum-Silicon Dioxide Reaction and the Implications for Self-Encapsulating, Self-Adhering Metallization Lines", Materials Research Society Symposium Proceedings, 1992, Vol. 250, pp. 763-768, Materials Research Society, Pittsburgh, PA.											

EXAMINER		DATE CONSIDERED
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*EXAMINER:	Initial if reference considered, whether or not criteria is in conforma-	nce with MPEP 609. Draw line through citation if not in conformance and not
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	COMPLETE IF KNOWN
Application Number	09/018,783
Confirmation Number	1242
Filing Date	February 4, 1998
First Named Inventor	Thomas L. Ritzdorf
Group Art Unit	2811
Examiner Name	Thomas J. Magee
Attorney Docket No.	20105-8162US

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MAY 17	Tano	<u> </u>		U.S. PATENT DOCUMENTS			
MA Symmetry	2 ا	U.S. Patent or	Application Kind Code (if known)	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Line Where Relevant Figures Appear	ıs,
ON		3,658,663		Fukanuma et al.	04/25/72		
		3,716,462		Jensen	02/13/73	20 5WA	
		3,878,066		Dettke et al.	04/15/75	28 E 57	
		4,100,054		DuRocher	07/11/78	3 × 0	
		4,385,978		Prusak	05/31/83	NY +5 P	
		4,576,689		Makkaev et al.	03/18/86	PH PH REP	
		4,959,278		Shimauchi et al.	09/25/90	PH 3: 38	
		5,115,430		Hahne et al.	05/19/92	8 8	
		5,151,168		Gilton et al.	09/29/92		
		5,209,817		Ahmad et al.	05/11/93	.ECH	
		5,372,848		Blackwell et al.	12/13/94	RECE JAN -	
		5,472,502		Batchelder 12/05/95		JAN -	
1		5,516,416		Canaperi et al.	05/14/96		
<u> </u>		5,549,808		Farooq et al.	08/27/96	IVED 8 2003 CENTER	
Ш		5,639,316		Cabral, Jr. et al.	06/17/97	2800	
Ц		5,882,498		Dubin et al.	03/16/99	00	
Ц	<u> </u>	5,932,077		Reynolds	08/03/99		
		6,184,121		Buchwalter et al.	02/06/01		
01		6,184,137		Ding et al.	02/06/01		
			F	OREIGN PATENT DOCUMENTS			
Examiner Initial	Cite No.	Foreign Patent	Kind Coo		Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	т

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				Application Number	09/018,783-Conf. #1242	
11	IFORMATIO	N DI	SCLOSURE	Filing Date	February 4, 1998	
STATEMENT BY APPLICANT				First Named Inventor	Thomas L. Ritzdorf	
				Art Unit	2811	
	(Use as many sheets as necessary)			Examiner Name	O. Nadav	
Sheet	1	of	1	Attorney Docket Number	291958162US	

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
ON/		US-6,391,166	05-21-2002	Wang			

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁴ (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				
0N		JP-03-103840	11-04-1992	Uemura		1			
J.N		JP-59-150094	08-28-1984	Teichiku KK		1			

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NON PATENT LITERATURE DOCUMENTS					
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